



US005742582A

United States Patent [19]**Suzuki**[11] **Patent Number:** **5,742,582**[45] **Date of Patent:** **Apr. 21, 1998**[54] **DISK MEDIUM AND METHOD OF WRITING DATA ONTO THE DISK MEDIUM**[75] **Inventor:** Katsuji Suzuki, Fukushima-ken, Japan[73] **Assignee:** Alps Electric Co., Ltd., Tokyo, Japan[21] **Appl. No.:** 924,967[22] **Filed:** Sep. 8, 1997**Related U.S. Application Data**

[63] Continuation of Ser. No. 574,529, Dec. 19, 1995, abandoned.

[30] **Foreign Application Priority Data**

Jan. 26, 1995 [JP] Japan 7-010788

[51] **Int. Cl.⁶** G11B 7/24[52] **U.S. Cl.** 369/275.1; 369/275.3[58] **Field of Search** 369/275.1, 275.2, 369/275.3, 13, 32, 47, 48, 58, 59, 54, 49, 44.34, 44.25, 44.26, 109, 111; 360/51, 48, 77.08[56] **References Cited****U.S. PATENT DOCUMENTS**

5,148,422 9/1992 Sako et al. 369/44.26

5,210,660 5/1993 Hetzler 360/51

5,255,261 10/1993 Iida et al. 369/275.3

5,388,090 2/1995 Hoshino et al. 369/275.3

5,446,724 8/1995 Tabe et al. 369/275.1

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A invention relates to a disk medium and a method of writing data onto the disk medium. The disk medium is formatted in such a manner that: there are provided a plurality of track zones formed into segments of concentric circles separated from each other in radial directions of the disk; a plurality of servo areas are formed along lines which are located at intervals of substantially equal angle and which extend from the center of the disk toward the outer periphery across the track zones; the plurality of track zones each include a plurality of sector areas each provided with a data area; and the length (in bytes) of the data area in each sector area is varied depending on the track zone's location on the disk medium so that no servo area is located within any of data areas.

5 Claims, 4 Drawing Sheets